

Section II
Soil and Site Information

Construction Materials Table 2
Sanborn County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AaA: Alwilda-----	90	Fair Low content of organic matter Droughty	0.12 0.96	Good		Fair Hard to reclaim	0.50
AaB: Alwilda-----	95	Fair Low content of organic matter Droughty	0.12 0.96	Good		Fair Hard to reclaim	0.50
Ab: Artesian-----	55	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey Salinity	0.00 0.88
Farmsworth-----	35	Poor Too clayey Sodium content Salinity Water erosion	0.00 0.00 0.88 0.99	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.19 0.76	Poor Too Clayey Sodium content Salinity Depth to saturated zone	0.00 0.00 0.00 0.76
BaE: Betts-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Slope Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope Carbonate content	0.00 0.92
BbD: Betts-----	45	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.37 0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	35	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.37 0.68
BcA: Blendon-----	85	Fair Low content of organic matter	0.12	Good		Good	
BcB: Blendon-----	90	Fair Low content of organic matter	0.12	Good		Good	
Bd: Bon-----	98	Good		Good		Good	
CaA: Carthage-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.99	Good	
CaB: Carthage-----	90	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.99	Good	
CbA: Carthage-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.99	Good	
Clarno-----	35	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CcB: Carthage-----	50	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.99	Good	
Hand-----	30	Good		Fair Low strength Shrink-swell	0.78 0.92	Good	
Cd: Clamo-----	85	Poor Too clayey Water erosion	0.00 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
Ce: Clamo-----	90	Poor Too clayey Water erosion	0.00 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
Cf: Clamo-----	100	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.88
CgA: Clarno-----	90	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
ChB: Clarno-----	45	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bonilla-----	30	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
CkB: Clarno-----	45	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Dudley-----	25	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.56	Poor Salinity Too Clayey Sodium content	0.00 0.00 0.78
CmB: Clarno-----	55	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	30	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
CoA: Clarno-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Prosper-----	30	Fair Low content of organic matter	0.12	Poor Low strength Shrink-swell	0.00 0.89	Good	
DaB: Davis-----	90	Good		Poor Low strength Shrink-swell	0.00 0.99	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Db: Davison-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.98	Fair Carbonate content Depth to saturated zone	0.84 0.98
Dc: Davison Variant-----	85	Fair Water erosion Carbonate content	0.90 0.97	Good		Fair Carbonate content	0.97
DdA: Delmont-----	85	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.62	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
DeA: Doger-----	85	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.50 0.84	Good		Poor Too sandy	0.00
DeB: Doger-----	85	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.50 0.84	Good		Poor Too sandy	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DfA: Dudley-----	30	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.56	Poor Salinity Too Clayey Sodium content	0.00 0.00 0.78
Jerauld-----	30	Poor Sodium content Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.32 0.88 0.99	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.12 0.91	Poor Sodium content Salinity Too Clayey Depth to saturated zone	0.00 0.00 0.19 0.91
Clarno-----	20	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Dh: Durrstein-----	85	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Sodium content Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dk: Durrstein-----	50	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Sodium content Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.00
Farmsworth-----	30	Poor Too clayey Sodium content Salinity Water erosion	0.00 0.00 0.88 0.99	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.19 0.76	Poor Too Clayey Sodium content Salinity Depth to saturated zone	0.00 0.00 0.00 0.76
Ea: Elsmere-----	85	Poor Wind erosion Too sandy Low content of organic matter	0.00 0.16 0.88	Fair Depth to saturated zone	0.53	Fair Too sandy Depth to saturated zone	0.16 0.53
Eb: Elsmere-----	55	Poor Wind erosion Too sandy Low content of organic matter	0.00 0.16 0.88	Fair Depth to saturated zone	0.53	Fair Too sandy Depth to saturated zone	0.16 0.53
Orwet-----	25	Poor Too sandy Carbonate content Low content of organic matter	0.00 0.84 0.88	Fair Depth to saturated zone	0.14	Poor Too sandy Depth to saturated zone	0.00 0.14

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EcA: Enet-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
EdB: Enet-----	55	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
Delmont-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.62	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
EeC: Ethan-----	45	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
Clarno-----	35	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Fa: Fedora-----	75	Fair Carbonate content Low content of organic matter	0.46 0.88	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Carbonate content	0.00 0.46
FbA: Forestburg-----	85	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Good		Poor Too sandy	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FcB: Forestburg-----	60	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Good		Poor Too sandy	0.00
Ethan-----	20	Poor Wind erosion Carbonate content Low content of organic matter	0.00 0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
FcC: Forestburg-----	50	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Good		Poor Too sandy	0.00
Ethan-----	35	Poor Wind erosion Carbonate content Low content of organic matter	0.00 0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
HaA: Hand-----	45	Good		Fair Low strength Shrink-swell	0.78 0.92	Good	
Bonilla-----	30	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
HbB: Hand-----	50	Good		Fair Low strength Shrink-swell	0.78 0.92	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	25	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
HcB: Houdek-----	45	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Dudley-----	25	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.56	Poor Salinity Too Clayey Sodium content	0.00 0.00 0.78
HdB: Houdek-----	55	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	25	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
HeA: Houdek-----	55	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Prosper-----	25	Fair Low content of organic matter	0.12	Poor Low strength Shrink-swell	0.00 0.89	Good	
HeB: Houdek-----	50	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Prosper-----	25	Fair Low content of organic matter Carbonate content	0.12 0.80	Poor Low strength Shrink-swell	0.00 0.89	Fair Carbonate content	0.80
HfA: Houdek-----	50	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Stickney-----	25	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.66	Poor Too Clayey Salinity	0.00 0.00
Hk: Hoven-----	90	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
HmA: Hoven-----	50	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Durrstein-----	40	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Sodium content Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.00
Ia: Ipage-----	50	Poor Too sandy Wind erosion Low content of organic matter Droughty Too acid	0.00 0.00 0.12 0.58 0.97	Good		Poor Too sandy	0.00
Els-----	30	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.55	Fair Depth to saturated zone	0.76	Poor Too sandy Depth to saturated zone	0.00 0.76
Ja: James-----	90	Poor Too clayey Salinity Sodium content Water erosion	0.00 0.00 0.22 0.99	Poor Depth to saturated zone Shrink-swell Low strength	0.00 0.00 0.00	Poor Depth to saturated zone Salinity Too Clayey Sodium content	0.00 0.00 0.00 0.22
La: Lamo-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.87	Fair Depth to saturated zone	0.53

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lb: Lute-----	85	Poor Sodium content Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Fair Depth to saturated zone	0.53	Poor Sodium content Salinity Depth to saturated zone	0.00 0.00 0.53
Lc: Lute-----	90	Poor Sodium content Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Sodium content Salinity	0.00 0.00 0.00
LdA: Lute-----	55	Poor Sodium content Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Fair Depth to saturated zone	0.53	Poor Sodium content Salinity Depth to saturated zone	0.00 0.00 0.53
Whitelake-----	30	Poor Sodium content Low content of organic matter Salinity	0.00 0.12 0.88	Good		Poor Sodium content Salinity	0.00 0.00
M-W: Miscellaneous Water Area-----	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Oa: Orwet-----	85	Poor Too sandy Carbonate content Low content of organic matter	0.00 0.84 0.88	Fair Depth to saturated zone	0.14	Poor Too sandy Depth to saturated zone	0.00 0.14
Pa: Orthents, Gravelly--	100	Poor Too sandy Droughty Low content of organic matter	0.00 0.05 0.12	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.18
Sa: Shue-----	60	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.12 0.99	Fair Depth to saturated zone Low strength Shrink-swell	0.53 0.78 0.99	Poor Too sandy Depth to saturated zone	0.00 0.53
Davison-----	20	Poor Wind erosion Low content of organic matter Carbonate content	0.00 0.50 0.84	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.84
Sb: Shue Variant-----	90	Poor Too sandy Wind erosion Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Poor Depth to saturated zone	0.00	Poor Too sandy Depth to saturated zone	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ta: Tetonka-----	100	Poor Wind erosion Too clayey Low content of organic matter	0.00 0.00 0.50	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.23	Poor Too Clayey Depth to saturated zone	0.00 0.00
Tb: Tetonka-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.24	Poor Depth to saturated zone Too Clayey	0.00 0.00
TcA: Tetonka-----	35	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.24	Poor Depth to saturated zone Too Clayey	0.00 0.00
Davison-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.98	Fair Carbonate content Depth to saturated zone	0.84 0.98
Clarno-----	25	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Td: Tetonka Variant-----	90	Fair Low content of organic matter Too acid	0.12 0.95	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
VaC: Valentine-----	85	Poor Too sandy Wind erosion Droughty Low content of organic matter	0.00 0.00 0.12 0.12	Good		Poor Too sandy	0.00
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wann-----	85	Fair Low content of organic matter Sodium content	0.88 0.97	Fair Depth to saturated zone	0.91	Fair Depth to saturated zone Rock fragments Sodium content	0.91 0.97 0.98
Wb: Wann-----	50	Fair Low content of organic matter Sodium content	0.88 0.97	Fair Depth to saturated zone	0.91	Fair Depth to saturated zone Rock fragments Sodium content	0.91 0.97 0.98
Lamo-----	40	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.87	Fair Depth to saturated zone	0.53
WcB: Whitelake-----	45	Poor Sodium content Low content of organic matter Salinity	0.00 0.12 0.88	Good		Poor Sodium content Salinity	0.00 0.00
Woonsocket-----	35	Fair Low content of organic matter	0.12	Good		Good	

Section II
Soil and Site Information

Construction Materials Table 2
Sanborn County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wd: Woonsocket-----	85	Fair Low content of organic matter	0.12	Good		Good	
We: Worthing-----	95	Poor Too clayey	0.00	Poor Depth to saturated zone	0.00	Poor Too Clayey	0.00
		Water erosion	0.99	Low strength	0.00	Depth to saturated zone	0.00
				Shrink-swell	0.12		
Wk: Worthing-----	95	Poor Too clayey	0.00	Poor Depth to saturated zone	0.00	Poor Too Clayey	0.00
		Water erosion	0.99	Low strength	0.00	Depth to saturated zone	0.00
				Shrink-swell	0.12		

